SBR = 000029/24-25 16/8/24

BR = 000029/24-25/16-8-24

012-22-000014.

D1.

M. A. R. 57 (Rule 116)

Measurement Book

No. E 21th RABI-I 634709

Serial No. .....

Name of work .Annual Maintenance of Street lights package D1 in Kammagondanahalli Sirsapalya area road no -12 From ....01.07.2024..... To ..31.07.2024.....

Name of Contractor of nature of Agency.....M/S. Chethan Electricals.....

Date of commencement of work....EE/Ele/DZ1/TEND/SAE/II/01/2023-24 Dt: 15.03.2024 ~~EE/Ele/DZ1/TEND/SAE/II/01/2023-24~~ Dt: 15.03.2024.

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
1.	Operation & Maintenance of Street lighting System including Replacement of damaged/failed/faulty/defective components like Lamps; tubes, chokes, Ignitors, capacitors, Switches, wire Holders, Starters & Switching ON/OFF of Street lights at Specified timing and pole numbering, Preparing Ward wise and Switching on Street wise data bank furnishing maintenance reports, everyday etc, complete so as to ensure efficient burning of Street lights detailed in tender documents for various type of Street lighting systems as detailed below. 36/40W fluorescent tube light Street lighting system:						
		20 NO's	x Rs. 57.12	x 1 Month	=		1142.40

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Bruhath Bengaluru Mahanagara Palike
Dasarahalli Zone, Bengaluru

Asst. Executive Engineer (Ele)
Bruhath Bengaluru Mahanagara Palike
Dasarahalli Zone, Bengaluru

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	2. Operation & Maintenance of Street lighting System including replacement of damaged/failed/fused out components like Lamps, tubes, Chokes, Ignitors, Capacitors, Switches, wires, Holders, Starters and Switching ON/Off of Street lights at Specified timing & pole numbering, Preparing ward wise, Streetwise data bank furnishing maintenance reports, Every day etc, complete so as to ensure efficient burning of Street lights detailed in tender documents for various type of Street lighting Systems as detailed below						
	125W HPMV pole lighting system.	50 Nos × Rs. 63.02 × 1 Month				=	1386.44
	3. Operation & Maintenance of Street lighting System including replacement of damaged/failed/fused pole components like lamps, tubes, Chokes, Ignitors, Capacitors, Switches, wires, Holders, Starters and Switching ON/Off of Street						

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Bruhath Bengalore Mahanagara Palike
Dasarahalli Zone, Bangalore

M. A. R. 57 (Rule 116) No. E 634710
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	lights at Specified timing & pole numbering, Preparing ward wise Streetwise data bank furnishing maintenance reports, Every day etc, Complete so as to ensure efficient burning of Street lights detailed in tender documents for various type of Street lighting systems as detailed below						
	Poles with 250W HPSV Street lighting System.	178 Nos × Rs. 84.95 × 1 Month				=	15121.00
	4. Operation & Maintenance of Street lighting System including replacement of damaged/failed/fused out Components like lamps, tubes, chokes, Ignitors, Capacitors, Switches, wires, Holders, Starters & Switching ON/Off of Street lights at Specified timing & pole numbering Preparing ward wise						

CFC
03/8/24
EE (El
DZ

Assistant Engineer (Ele)

ASST. EXECUTIVE ENGINEER (Ele)

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Street wise data bank, furnishing maintenance reports every day etc, complete so as to ensure efficient burning of Street lights detailed in tender documents for various type of Street lighting systems as detailed below 400 watt HPSV Street light / High mast lighting System.						
		50 Nos	x Rs 93.17	x 1 month	=		7453.60
5.	Operation & Maintenance of Street LED Street lighting System including replacement of damaged / failed / fused out components like LED drivers, MCPCB, Surge protective device, Switches, Wires, Holders, Starter Observing weather proofing technic confirming to IP65 Standards and Switching ON/OFF of Street lights at Specified timing & pole numbering, Preparing ward wise Street wise Street light data bank, furnishing maintenance reports, every day etc, complete so as to						

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Bruhath Bengaluru Mahanagara Palike

M. A. R. 57 (Rule 116) No. E
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

684711

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	ensure efficient burning of Street lights detailed in tender documents for 24 watt to 40 watt LED part / Street lighting System.						
		440 S	x Rs 13.33	x 1 month	=		293.32
6.	Operation, and Maintenance of LED Street lighting System including Replacement of damaged / failed / fused out components like the LED drivers, MCPCB, Surge protective device Switches, wires, Holders, Starter observing weather proofing technic confirming to IP 65 Standards and Switching ON/off of Street lights at Specified timing & pole numbering Preparing ward wise, Street wise Street light data bank, furnishing maintenance reports, every day etc, complete						

Assistant Engineer (E/e)

ASST. EXECUTIVE ENGINEER (E/e)

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	So as to ensure efficient burning of Street light data bank, furnishing maintenance reports, everyday etc, complete So as to ensure efficient burning of Street lights detailed in tender documents for ~~40watt~~ to 65W LED Street light lighting System.						
		350Nos x Rs 95.61 x 1 Month				=	33463.50
7.	Operations & Maintenance of LED Street lighting System. Including replacement of damaged/failed/defected components like LED drivers, MCPCB, Surge protective device, Switches, wires, Holders, Starter observing weather Proofing-technic confirming to IP65 Standards and, Switching ON/OFF of Street lights at specified timing and pole numbering, preparing wardrobe Streetwise Streetlight data bank, furnishing maintenance reports, every day etc, complete						

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Bruhath Bangalore Mahanagara Palike

M. A. R. 57 (Rule 116) No. E
Measurement Book

Serial No. 684712

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	So as to ensure efficient burning of Street lights detailed in tender documents for 90W LED Street light lighting System.						
		90 NO's x Rs 114.80 x 1 Month				=	10332.00.
8.	Operation & Maintenance of LED Street light lighting System including replacement of damaged/failed/defected components like LED drivers, MCPCB, Surge protective device switches, wires, Holders, Starter observing weather Proofing-tehnic confirming to IP65 Standard and Switching ON/Off of Street lights at Specified Timings & Pole numbering, Preparing Wardrobe, Streetwise Street						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	light data banks, furnishing maintenance Reports, everyday etc, complete So as to ensure efficient burning of Street lights detailed in tender documents for 110/120 watt LED Street light lighting System	0	x	0	x0	=	∞.
9.	Operation and Maintenance of LED Street lighting System including replacement of damaged/failed/fused out components like LED drivers, MCPCB, Surge protective device Switches wires, Holders, Starters Observing defective parts in electric Conforming to IP65 Standards and switching ON/OFF of Street lights at Specified timing and pole numbering, Preparing Wardwise, Street wise, Street light data banks, furnishing maintenance reports, every day etc, complete So as to ensure efficient burning of Street						

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M. A. R. 57 (Rule 116) No. E
Measurement Book

Serial No. .....
684713

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	lights detailed in tender documents for 150/180 watt LED Street light/High mast lighting System.		0	x	0	=	∞
10.	Supply and installation/fixing/provision of outdoor type thermoplastic Modular panel enclosure with transparent polycarbonate Lid, Shock proof, IP65 (weather proof), rust Proof, water proof, Corrosion proof having internally embedded gasket on both sides flap Suitable to fix Single Phase/3Φ energy meter on Suitable base plate of having a Provision for fuse/MCB cutout with Suitable transparent hinged flap opening of operating MCB along with complete						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	tamper proof SEALING facility 300mm x 450mm x 210mm						
	5 Nos x 5127				=		25635.00
11.	Supply & fixing of 4 pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc, complete with AC-3 Ratings as per IS-13947 100 to 125 Amps						
	18 No's x 7200.00				=		129600.00
12.	Supplying & fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' type curve, indicator ON/OFF, Energy Class-3 with short circuit breaking capacity of 10kA and complete wiring as required conforming to IEC 60898 50-63 Amps Sp.						
	20 No's x 723.00				=		14460.00

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M. A. R. 57 (Rule 116) No. E
Measurement Book

634714

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
13.	Supplying and fixing microprocessor based Astronomical timer switch with using necessary bolts nuts & washers.						
	19 No's x 340.00				=		6460.00
14.	wiring for lighting/power circuit using one 0.6/1 KV FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS:694 conforming to latest amendments 6 sqmm.						
	10 No's x Rs. 70				=		700.00

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Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
15.	Supplying tinned copper lugs and Crimping & soldering to terminal point for wire of the following sizes 6Sqmm.	8000's X Rs. ₹				= Total	560.00
	① 12% GST deduction						205280.26 -24633.87
	② 18% GST Add						180648.89 32516.71
	③ Total Rs for 9 item	10 to 15					213165.10
	④ 18% GST on 9 item no 10 to 15						24752S.00 44554.50
	⑤ Fine imposed for non buying of street lights for the periode of 01.07.2021 to 31.07.2021 & Post fine violation penalty for the present bill						505244.60 500.00
	⑥ ~~2% Scrap deduction~~						

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Dasarahalli Zone, Bangalore

M. A. R. 57 (Rule 116) No. E
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

634715

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
							505244.60 500.00
	⑥ 2% will be deducted in monthly maintenance bill against the released scrap material.						4863.30
						Grand total.	500481.30

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Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

Audited and admitted for Rs. 5,05,482/-

Passed by Cheque for Rs. 4,79,962/-

(Four lakh Seventy nine hundred & Sixty two only

by adjustment Rs. 25,283

Accounts Officer

Executive Engineer (Ele)

Division